

35 U.S.C. § 102(b) as being anticipated by Tillays, et al. (U.S. Pat. No. 3, 508,100). These rejection are respectfully traversed.

Although applicant does not necessarily agree with the examiner's rejection of claims 1, 8, and 9 in view of Klein, in order to expedite prosecution of the present application, applicant elects to cancel claims 1, 8, and 9. As such, these rejections are moot.

Likewise, although applicant does not necessarily agree with the rejection of claims 1, 4, and 5 in view of Tillays, et al., in order to expedite prosecution of the present application, applicant elects to cancel claims 1 and 5. With respect to claim 4, this claim has been amended to now depend from claim 2.

OBJECTIONS

Claims 2, 3, 6, and 7 stand objected to as being dependent upon a rejected base claim but were deemed allowable if rewritten in independent form. Although applicant does not necessarily agree with the rejection of the various base claims, applicant elects to rewrite claim 2 in independent form to recite the subject matter of independent claim 1. Claim 3 is rewritten in independent form to recite the subject matter of independent claim 1. Claim 6 is rewritten in independent form to recite the subject matter of independent claim 5. Claim 7 is rewritten in independent form to recite the subject matter of independent claim 5. As noted above, claims 1 and 5 are cancelled.

NEW CLAIMS

New claims 22 - 24 are presented herein. New claim 22 is substantially similar to claim 4 but depends from rewritten claim 3. New claim 23 calls for a lens shaped light transmissive member mounted in the through hole of the substrate. The prior art of record does not teach or suggest the provision of a lens shaped light transmissive member mounted in the through hole. Claim 25 is directed to the structure of Figure 5. Favorable consideration of these new claims is respectfully requested.

CONCLUSION

It is believed that all of the stated grounds of rejection have been properly traversed, accommodated, or rendered moot. Applicant therefore respectfully requests that the Examiner reconsider and withdraw all presently outstanding rejections. It is believed that a full and complete response has been made to the outstanding Office Action, and as such, the present application is in condition for allowance. Thus, prompt and favorable consideration of this amendment is respectfully requested. If the Examiner believes that personal communication will expedite prosecution of this application, the Examiner is invited to telephone the undersigned at (248) 641-1600.

Respectfully submitted,

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ATTACHMENT FOR CLAIM AMENDMENTS

The following is a marked up version of each amended claim in which underlines indicates insertions and brackets indicate deletions.

2. (Amended) An optical device comprising:
a substrate including a through hole;
an optical element mounted on the substrate and having an optical section
placed to face the through hole; and
a light transmissive member disposed at the through hole;

[An optical device according to claim 1,] wherein light transmissive under-fill material is provided between the substrate and the optical element and between the light transmissive member and the optical element.

3. (Amended) An optical device comprising:
a substrate including a through hole;
an optical element mounted on the substrate and having an optical section
placed to face the through hole; and
a light transmissive member disposed at the through hole;

[An optical device according to claim 1,] wherein a spacer is interposed between the optical element and the light transmissive member.

4. (Amended) An optical device according to claim [1] 2, wherein the light transmissive member is in a lens shape.

6. (Amended) An optical device comprising:
a substrate including a through hole;
an optical element mounted on the substrate and having an optical section
placed to face the through hole; and
a lens provided on the substrate and covering the through hole,

[An optical device according to claim 5,] wherein light transmissive under-fill material is provided between the substrate and the optical element and between the lens and the optical element.

7. (Amended) An optical device comprising:
a substrate including a through hole;
an optical element mounted on the substrate and having an optical section
placed to face the through hole; and
a lens provided on the substrate and covering the through hole,

[An optical device according to claim 5,] wherein a spacer is interposed between the substrate and the lens.